

WHAT IS CLAIMED IS:

1. An elastomer composition containing a rubber or/and a thermoplastic elastomer as a main component thereof and a reinforcing filler dispersed in said rubber or/and said  
5 thermoplastic elastomer,

wherein a T2 relaxation time (spin-spin relaxation) of a bound rubber formed in a portion which is disposed in close vicinity to said rubber or/and said thermoplastic elastomer and said reinforcing filler and includes an interface  
10 therebetween is set to not less than  $250 \mu\text{s}$  nor more than  $400 \mu\text{s}$ .

2. The elastomer composition according to claim 1, wherein said bound rubber is polymer chains subjected to influence of a molecular motion generated by an interaction  
15 between said rubber or/and said thermoplastic elastomer and said reinforcing filler in said portion that is disposed in close vicinity to said rubber or/and said thermoplastic elastomer and said reinforcing filler and includes said interface therebetween.

20 3. The elastomer composition according to claim 1, wherein a JIS-A hardness is not less than 20 nor more than 45.

4. The elastomer composition according to claim 2, wherein a JIS-A hardness is not less than 20 nor more than 45.

5. The elastomer composition according to claim 1,  
25 wherein EPDM is used as said rubber or/and said thermoplastic

elastomer; and carbon black is used as said reinforcing filler.

6. The elastomer composition according to claim 2, wherein EPDM is used as said rubber or/and said thermoplastic elastomer; and carbon black is used as said reinforcing filler.

7. The elastomer composition, according to claim 1, which is crosslinked with an organic peroxide.

8. The elastomer composition, according to claim 2, which is crosslinked with an organic peroxide.

9. The elastomer composition according to claim 5, wherein not less than three nor more than 15 parts by weight of said carbon black and not less than 0.5 nor more than three parts by weight of a peroxide crosslinking agent are used for 100 parts by weight of said EPDM.

10. The elastomer composition according to claim 7, wherein not less than three nor more than 15 parts by weight of said carbon black and not less than 0.5 nor more than three parts by weight of a peroxide crosslinking agent are used for 100 parts by weight of said EPDM.

11. The elastomer composition according to claim 1, wherein said T2 relaxation time (spin-spin relaxation) of said bound rubber formed between said rubber or/and said thermoplastic elastomer and said reinforcing filler is more than a T2 relaxation time of a bound rubber of said rubber

or/and said thermoplastic elastomer to which said reinforcing filler is not added by not less than 150% nor more than 300%.

12. The elastomer composition according to claim 2, wherein said T2 relaxation time (spin-spin relaxation) of  
5 said bound rubber formed between said rubber or/and said thermoplastic elastomer and said reinforcing filler is more than a T2 relaxation time of a bound rubber of said rubber or/and said thermoplastic elastomer to which said reinforcing filler is not added by not less than 150% nor more than 300%.

10 13. A rubber roller formed by molding an elastomer composition according to claim 1.

14. A rubber roller formed by molding an elastomer composition according to claim 2.

15 15. A rubber roller, according to claim 13, which is used as a roller for paper-feeding roller or a film-feeding roller.